DOCUMENT RESUME

ED 407 244 SE 060 093

AUTHOR	Carlson, David, Ed.; And Others
TITLE	Resources for Teaching Linear Algebra. MAA Notes Volume 42.
INSTITUTION	Mathematical Association of America, Washington, D.C.
REPORT NO	ISBN-0-88385-150-4
PUB DATE	97
NOTE	306p.
AVAILABLE FROM	Mathematical Association of America, 1529 18th Street N.W., Washington, DC 20036.
PUB TYPE	Guides - Classroom - Teacher (052)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	Algebra; Educational Change; *Educational Resources; Educational Strategies; Interdisciplinary Approach; *Mathematics Instruction; Secondary Education; Teaching Methods
IDENTIFIERS	*Linear Algebra

ABSTRACT

This book takes the position that the teaching of elementary linear algebra can be made more effective by emphasizing applications, exposition, and pedagogy. It includes the recommendations of the Linear Algebra Curriculum Study Group with their core syllabus for the first course, and the thoughts of mathematics faculty who have taught linear algebra using these recommendations. Part I, The Role of Linear Algebra, highlights the fact that algebra appears in many places in mathematics and outside of mathematics and in these many places, appears under many guises. Part II, Linear Algebra as Seen from Client Disciplines, presents views of linear algebra from four disciplines outside mathematics: (1) computer graphics; (2) computer science; (3) economics; and (4) engineering. Part III, The Teaching of Linear Algebra, contains articles on "how to" suggestions, general presentations on teaching issues by mathematicians involved in linear algebra, and the views of mathematics educators on linear algebra teaching issues and teaching reform efforts in linear algebra. Part IV, Linear Algebra Exposition, contains four papers that are classified as purely exposition of linear algebraic ideas. Part V, Applications of Linear Algebra, offers instructors six articles on applications which could be of use in the classroom. (JRH)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****